

Blood Navigator[®]

MTP Performance Improvement
& Automatic Documentation Tool



MASSIVE TRANSFUSIONS*

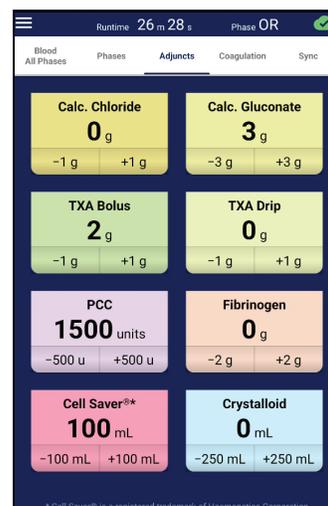
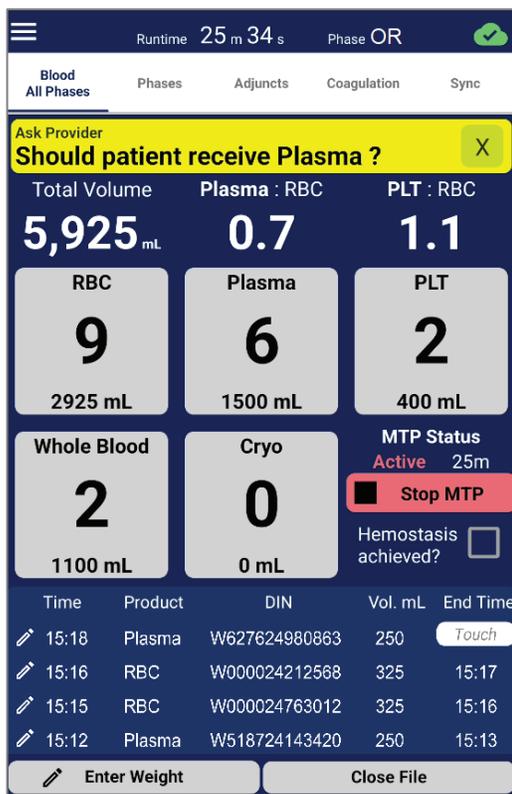
Half of the patients had imbalanced resuscitations.
Those patients had 2–3x higher mortality odds ratio.

The Massive Challenge

Tracking and documenting multiple blood products is time-consuming, resource-intensive and error-prone. This can lead to potential inaccuracies and gaps in patients' records, causing delays in treatment and imbalanced transfusion ratios.

The Simple Solution

Blood Navigator empowers clinical teams with accurate, real-time information, enabling you to make the best decisions with confidence—which may lead to better patient outcomes and more accurate billing.



BloodNav[™]

Quickly track blood products, ratios and adjuncts across all locations with a simple scan of IV bag barcodes using the integrated scanner or manual entry for adjunct tracking.

Blood Navigator®

Real-Time Web Based Dashboard

| MRN | Last Location | MTP Status | Hemostasis Status | PRBC | PLAS | PLT | WB | Cryo | Start Time | Report |
|---------|---------------|-------------|-------------------|------|------|-----|----|------|--------------------|--------|
| 1239945 | ED/Trauma | Ordered | | 0 | 0 | 0 | 3 | 0 | 10:33 AM 2/7/2025 | PDF |
| 1234911 | ED/Trauma | | | 2 | 2 | 0 | 0 | 0 | 10:17 AM 2/7/2025 | PDF |
| 1234574 | L&D | Deactivated | Achieved | 11 | 12 | 2 | 2 | 10 | 03:19 PM 2/5/2025 | PDF |
| 1230202 | OR | Deactivated | Achieved | 23 | 25 | 4 | 4 | 0 | 01:35 PM 2/5/2025 | PDF |
| 1234573 | OR | Deactivated | Achieved | 4 | 5 | 1 | 0 | 0 | 11:29 AM 2/3/2025 | PDF |
| 1234481 | ICU | | | 1 | 1 | 0 | 0 | 0 | 04:53 AM 1/31/2025 | PDF |

MTP transfusions & deactivations are visible within 5–10 seconds throughout the hospital, including blood banks, alleviating cumbersome verbal hand-offs between departments

EMR Integration

| MTP | 10:37:03 | 10:45:01 |
|------------------------|-----------------|-----------------|
| Donation ID Number | W000024915571 | W000024143420 |
| Blood Product | RBC | Plasma |
| Blood Product Code | E7425V00 | E2701V00 |
| Blood Type | O NEG 9500 | AB POS 8400 |
| Expiration Date | 23:59 4/14/2025 | 23:59 4/12/2025 |
| Volume | 325 | 250 |
| Whole Blood Units | | |
| RBC Units | 1 | |
| Plasma Units | | 1 |
| Platelets Units | | |
| Cryo Units | | |
| Transfusion Start Time | 10:37 3/29/2025 | 10:45 3/29/2025 |
| Transfusion End Time | 10:40 3/29/2025 | 10:47 3/29/2025 |
| Transfusionist ID | 14557 | 14557 |
| Verifier ID | 24606 | 24606 |

Automatic MTP documentation to I&Os, including flowsheets

Transfusion Reports

| Arcos Blood Navigator® Transfusion Report | | | | | | |
|---|-----------------------|-----------------------------------|---------------|--------------|-------------|--|
| Example Report | | | | | | |
| Pre-hospital | | | | | | |
| Time | Event | DIN | Product Code | Volume (mL) | | |
| 08:09 | Gave 1 unit of RBC | | | 325 | | |
| 08:10 | Gave 1 unit of Plasma | | | 250 | | |
| ED/Trauma | | | | | | |
| Start Time | Stop Time | Event | DIN | Product Code | Volume (mL) | |
| 08:09 | 08:10 | Started session | | | | |
| | | Random ID RN/cch | | | | |
| | | Injury time: Less than 1 hour ago | | | | |
| 08:10 | 08:13 | MTP ordered | | | | |
| 08:11 | 08:13 | Gave 1 unit of Whole Blood | W000024123410 | E0009V00 | 550 | |
| | | Transfusionist: 345867 | | | | |
| | | Verifier: 373592 | | | | |
| 08:14 | 08:15 | Gave 1 unit of Whole Blood | W000024358015 | E0009V00 | 550 | |
| | | Transfusionist: 345867 | | | | |
| | | Verifier: 373592 | | | | |
| OR | | | | | | |
| Start Time | Stop Time | Event | DIN | Product Code | Volume (mL) | |
| 08:19 | 08:20 | Gave 1 unit of Platelets | W000024357118 | E5109V00 | 200 | |
| | | Transfusionist: 436629 | | | | |
| | | Verifier: 583158 | | | | |
| 08:22 | 08:24 | Gave 1 unit of Plasma | W000024355125 | E7731V00 | 250 | |
| | | Transfusionist: 436629 | | | | |
| | | Verifier: 583158 | | | | |
| 08:22 | 08:23 | Gave 1 g of Calcium Chloride | | | | |
| | | Verifier: 583158 | | | | |
| 08:23 | 08:27 | Gave 1 g TXA bolus | | | | |
| | | Verifier: 583158 | | | | |
| 08:25 | 08:27 | Gave 1 unit of RBC | W000024361351 | E7425V00 | 325 | |
| | | Transfusionist: 436629 | | | | |
| | | Verifier: 583158 | | | | |
| 08:26 | 08:26 | R/O min entered | | | | |

Detailed MTP reports across all locations enabling same-day feedback for performance improvement

Protocol Reminders

| Runtime 41 m 51 s Phase OR | | | |
|-----------------------------------|--------------|-----------|-------------|
| Blood | Phases | Adjuncts | Coagulation |
| All Phases | | | Sync |
| Ask Provider | | | |
| Should patient receive Plasma ? X | | | |
| Total Volume | Plasma : RBC | PLT : RBC | |
| 7,850 mL | 0.7 | 0.8 | |
| RBC | Plasma | PLT | |
| 12 | 8 | 2 | |
| 3900 mL | 2000 mL | 400 mL | |

Real-time MTP reminders based on your protocols for plasma, platelets, calcium, TXA, and cryoprecipitate



Achieve Optimal Transfusion

Unlike pressure bag infusers, The Belmont® Rapid Infuser can deliver 3 to 5 products simultaneously. This enables the concurrent infusion of multiple blood components, allowing for a balanced transfusion, which is associated with improved outcomes.

**King M. Enhancing the quality of massive transfusions through real-time documentation and team communication. Presented at the 2024 Trauma Quality Improvement Program Annual Conference Nov 13, 2024, Denver, CO.

Enhancing Care—Effectiveness Pre vs. Post-BloodNav Implementation**



145% increase

MTP blood documentation accuracy



53% increase

Reported ease of MTP documentation



24% increase

Plasma:RBC transfusion ratio balance



100% positive

User experience rating after using BloodNav